

**Iowa Department of Natural Resources
Title V Operating Permit**

Name of Permitted Facility: United States Gypsum Company
Facility Location: 13425 210th Street
Sperry, IA 52650
Air Quality Operating Permit Number: 03-TV-012
Expiration Date: April 29, 2008

EIQ Number: 92-5176
Facility File Number: 29-06-001

Responsible Official

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
gr./dscf.....	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
HRA.....	Heat Resistant Accelerator
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MBR.....	Multi-Burner Refractoryless
MVAC.....	motor vehicle air conditioner
NSPS.....	new source performance standard
ppmv.....	parts per million by volume
lb./hr.....	pounds per hour
lb./MMBtu.....	pounds per million British thermal units
scfm.....	standard cubic feet per minute
TPY.....	Tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC.....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: United States Gypsum Company

Permit Number: 03-TV-012

Facility Description: Gypsum Products Manufacturing (SIC 3275)

Equipment List

Emission Point Number	Associated Emission Unit Number(s)	Associated Emission Unit Description
EP-01	EU-01	#1 Kettle Combustion
EP-02	EU-02A EU-02B	#2 Gypsum Calcining Kettle #2 Kettle Burner (Natural Gas)
EP-03	EU-03A EU-03B	#3 Gypsum Calcining Kettle #3 Kettle Burner (Natural Gas)
EP-04	EU-04A EU-04B	#4 Kettle Burner (Natural Gas) #4 Kettle Burner (No. 2 Fuel Oil)
EP-05	EU-05	#3 Roller Grinding Mill
EP-06	EU-06	#4 Gypsum Calcining Kettle
EP-07	EU-07A EU-07B	#1 Roller Grinding Mill #2 Roller Grinding Mill
EP-08	EU-08	Cooling Belt Conveyor
EP-09	EU-09A EU-09B	Gypsum Ore Rotary Rock Dryer Rock Dryer Burner (Natural Gas)
EP-10	EU-10	Stucco Storage Bins (4)
EP-11	EU-11A EU-11B	#1 Board Drying Kiln (Natural Gas) #1 Board Drying Kiln (No. 2 Fuel Oil)
EP-12	EU-12	#1 End Saw
EP-13	EU-13	#2 End Saw
EP-14	EU-14A EU-14B	#2 Board Drying Kiln (Natural Gas) #2 Board Drying Kiln (No. 2 Fuel Oil)
EP-15	EU-15	#1 Mixer Vent
EP-16A EP-16B	EU-16	C-Belt Conveyor
EP-17	EU-17	#2 Stucco Bin
EP-18	EU-18A EU-18B	#2 Stucco System #2 Stucco Mixer

(Equipment List Continued)

Emission Point Number	Associated Emission Unit Number(s)	Associated Emission Unit Description
EP-19	EU-19B	#2 Landplaster Receiver
	EU-19C	#1 Ball Mill
	EU-19D	#2 Ball Mill
	EU-19F	#1 Stucco Bin
	EU-19G	Stucco Loading System
EP-20	EU-20	Gypsum Rock Storage Pile
EP-21	EU-21	Gypsum Rock Stock Pile
EP-22	EU-22	Cement Rock Storage Pile
EP-23	EU-23	Synthetic Gypsum Storage Pile
EP-28	EU-28	Rock Crusher
EP-29	EU-29	#4 Kettle Hot Pit
EP-30	EU-30	#1 Calcining Kettle (MBR Kettle) / MBR Kettle Hot Pit
EP-32	EU-32	Unprocessed Waste Wallboard Pile
EP-33	EU-33	Processed Waste Wallboard Storage Pile
EP-34	EU-34	#1 Landplaster Receiver Bin
EP-47	EU-47	Dunnage Machine
EP-48	EU-48	Clay Storage Bin

Insignificant Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-24	Water Storage Tank (12,000 gallons)
EU-25	#2 Diesel Oil Tank (3,000 gallons)
EU-26	Hydraulic Oil Storage Tank
EU-35	Mine Emergency Hoist Diesel
EU-36	Diesel Fire Pump
EU-37	Office Emergency Generator
EU-38	Services Building Maintenance Welding
EU-39	Mill Shop Welding
EU-40	75 Small Natural Gas Sources (Plant Space Heaters)
EU-41	#1 Fuel Oil Storage Tanks
EU-43	Fire Pump #2 Fuel Oil Storage Tank
EU-44	Gasoline Storage & Transfer (500 gallons)
EU-45	Waste Oil Storage Tank
EU-50	LPG Generator

II. Plant-Wide Conditions

Facility Name: United States Gypsum Company
Permit Number: 03-TV-012

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five (5) years
Commencing on: April 29, 2003
Ending on: April 29, 2008

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Emission Limits

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter (state enforceable only)¹:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

¹ This is the current language in the Iowa Administrative Code (IAC). This version of the rule is awaiting EPA approval to become part of Iowa's State Implementation Plan (SIP). When EPA approves this rule, it will replace the older version and will be considered federally enforceable.

Particulate Matter (federally enforceable)²:

The emission of particulate matter from any process shall not exceed the amount determined from Table I, except as provided in 567 — 21.2(455B), 23.1(455B), 23.4(455B) and 567 — Chapter 24. If the director determines that a process complying with the emission rates specified in Table I is causing or will cause air pollution in a specific area of the state, an emission standard of 0.1 grain per standard cubic foot of exhaust gas may be imposed.

Authority for Requirement: 567 IAC 23.3(2)"a" (prior to 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

Limitations On Other Sources

The following improvements to the U.S. Gypsum facility should have been in place by June 13, 1996 (120 days after receipt of construction permit 88-A-190-S4):

- A. Establish a program for the application of a surfactant spray on unpaved roads.
- B. Extend the Rock Dryer and Crusher exhaust stack by 20.0 feet to a discharge elevation of 115.67 feet.
- C. Extend the #1 Board Drying Kiln exhaust stack by 15.0 feet to a discharge elevation of 44.67 feet.

² This is the current language in the Iowa SIP, and is enforceable by EPA.

- D. Limit the usage of No. 2 fuel oil to low sulfur fuel with a maximum sulfur content of 0.0705%.

Authority for Requirement: Iowa DNR Construction Permit 88-A-190-S4

Operational Limits and Requirements

1. **NSPS Subpart OOO:** The Permittee shall comply with all applicable requirements of 40 CFR 60 Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants (567 IAC 23.1 (2)"bbb"). All of the applicable requirements below are from 40 CFR Part 60 Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants.³

§ 60.672 Standards for Particulate Matter

- (a) On and after the date on which the performance test required to be conducted by § 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:
- (1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and
 - (2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of § 60.676 (c), (d), and (e).
- (b) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.
- (c) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.
- (d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.
- (e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:
- (1) No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in § 60.671.

³ For definitions to this Subpart, see 40 CFR 60.670 in the Code of Federal Regulations.

(2) No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section.

(f) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7 percent opacity.

(g) Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in paragraph (a)(1) and (a)(2) of this section.

(h) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:

(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.

(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

§ 60.675 Test methods and procedures.

(a) In conducting the performance tests required in § 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in § 60.8(b). Acceptable alternative methods and procedures are given in paragraph (e) of this section.

(b) The owner or operator shall determine compliance with the particulate matter standards in § 60.672(a) as follows:

(1) Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.

(2) Method 9 and the procedures in § 60.11 shall be used to determine opacity.

(c)(1) In determining compliance with the particulate matter standards in § 60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in § 60.11, with the following additions:

(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature

is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

(2) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under § 60.672(f) of this subpart, using Method 9, the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages).

(3) When determining compliance with the fugitive emissions standard for any affected facility described under § 60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 10 percent opacity; and

(ii) There are no more than 3 readings of 10 percent for the 1-hour period.

(4) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under § 60.672(c) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 15 percent opacity; and

(ii) There are no more than 3 readings of 15 percent for the 1-hour period.

(d) In determining compliance with § 60.672(e), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.

(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

(f) To comply with § 60.676(d), the owner or operator shall record the measurements as required in § 60.676(c) using the monitoring devices in § 60.674 (a) and (b) during each particulate matter run and shall determine the averages.

(g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

(h) Initial Method 9 performance tests under § 60.11 of this part and § 60.675 of this subpart are not required for:

(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin.

(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

§ 60.676 Reporting and recordkeeping.

(a) Each owner or operator seeking to comply with § 60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.

(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and

(ii) The rated capacity in tons per hour of the replacement equipment.

(2) For a screening operation:

(i) The total surface area of the top screen of the existing screening operation being replaced and

(ii) The total surface area of the top screen of the replacement screening operation.

(3) For a conveyor belt:

(i) The width of the existing belt being replaced and

(ii) The width of the replacement conveyor belt.

(4) For a storage bin:

(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and

(ii) The rated capacity in megagrams or tons of replacement storage bins.

(c) During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate.

(d) After the initial performance test of a wet scrubber, the owner or operator shall submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss (or gain) and liquid flow rate differ by more than ± 30 percent from the averaged determined during the most recent performance test.

(e) The reports required under paragraph (d) shall be postmarked within 30 days following end of the second and fourth calendar quarters.

(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in § 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with § 60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with § 60.672(e).

(g) The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to § 60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in § 60.672(b) and the emission test requirements of § 60.11 and this subpart. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in § 60.672(h).

(h) The subpart A requirement under § 60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.

(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

(2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

2. **NSPS Subpart UUU:** The Permittee shall comply with all applicable requirements of 40 CFR 60 Subpart UUU Standards of Performance for Calciners and Dryers in Mineral Industries (567 IAC 23.1 (2)"ppp"). All of the applicable requirements below are from 40 CFR Part 60 Subpart OOO Standards of Performance for Calciners and Dryers in Mineral Industries.⁴

§ 60.732 Standards for particulate matter.

Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by § 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. No emissions shall be discharged into the atmosphere from any affected facility that:

(a) Contains particulate matter in excess of 0.092 gram per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)] for calciners and for calciners and dryers installed in series and in excess of 0.057 g/dscm (0.025 gr/dscf) for dryers.

§ 60.735 Recordkeeping and reporting requirements.

(a) Records of the measurements required in § 60.734 of this subpart shall be retained for at least 2 years.

(b)⁵

(c) Each owner or operator shall submit written reports semiannually of exceedances of control device operating parameters required to be monitored by § 60.734 of this subpart. For the purpose of these reports, exceedances are defined as follows:

⁴ For definitions to this Subpart, see 40 CFR 60.731 in the Code of Federal Regulations.

⁵ Subsection "b" is not applicable to this facility at this time.

- (1) All 6-minute periods during which the average opacity from dry control devices is greater than 10 percent; or
- (d) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Clean Air Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected facilities within the State will be relieved of the obligation to comply with this section provided that they comply with the requirements established by the State.

§ 60.736 Test methods and procedures.

(a) In conducting the performance tests required in § 60.8, the owner or operator shall use the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in § 60.8(b).

(b) The owner or operator shall determine compliance with the particulate matter standards in § 60.732 as follows:

- (1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and volume for each test run shall be at least 2 hours and 1.70 dscm.
- (2) Method 9 and the procedures in § 60.11 shall be used to determine opacity from stack emissions.

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3. **General Provisions:** The Permittee shall comply with all applicable requirements of 40 CFR 60 Subpart A – General Provisions - 567 IAC 23.1(2) as listed below:

Sec. 60.12 Circumvention.

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Sec. 60.14 Modification.

(a) Except as provided under paragraphs (e) and (f) of this section, any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of section 111 of the Act. Upon modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emission rate to the atmosphere.

Sec. 60.15 Reconstruction.

(a) An existing facility, upon reconstruction, becomes an affected facility, irrespective of any change in emission rate.

Authority for Requirement: 40 CFR 60 Subpart A – General Provisions
567 IAC 23.1(2)

Compliance Plan

*The owner/operator of this plant shall comply with the applicable requirements listed below.
The compliance status is based on information provided by the applicant.*

Unless otherwise noted in the Emission Point-Specific Conditions, United States Gypsum Company is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, United States Gypsum Company shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

III. Emission Point-Specific Conditions

Facility Name: United State Gypsum Company
Permit Number: 03-TV-012

Emission Point ID Number: EP-01

Associated Equipment

Associated Emission Unit ID Number(s): EU-01

Applicable Requirements

Emission Unit vented through this Emission Point: EU-01
Emission Unit Description: #1 Kettle (3 Natural Gas Burners, 5 MMBtu/hr each)
Raw Material/Fuel: Natural Gas
Rated Capacity: 15 MMBtu/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: Iowa DNR Construction Permit 97-A-1027
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: Iowa DNR Construction Permit 97-A-1027
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 96.7
Stack Diameter (inches): 30
Stack Exhaust Flow Rate (scfm): 3,300
Stack Temperature (°F): 550
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 97-A-1027

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-02

Associated Equipment

Associated Emission Unit ID Number(s): EU-02A, EU-02B

Emissions Control Equipment ID Number: CE-02

Emissions Control Equipment Description: Pulse Jet Baghouse ⁽¹⁾

⁽¹⁾ EU-02A is the only emission unit that vents through the baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-02A

Emission Unit Description: #2 Gypsum Calcining Kettle

Raw Material/Fuel: Gypsum Ore

Rated Capacity: 18.0 tons/hr

Emission Unit vented through this Emission Point: EU-02B

Emission Unit Description: #2 Kettle Natural Gas Burner

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.012 MMcf/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-737-S1
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.72 lb/hr ⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-737-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.72 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-737-S1

⁽²⁾ Emission limit based on 0.03 gr/dscf

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 02-A-737-S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 3.16 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 02-A-737-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The fuel shall be limited to natural gas only.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

1. Maintain records as to the type of fuel used (i.e. fuel bill).

Authority for Requirement: Iowa DNR Construction Permit 02-A-737-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 97

Stack Diameter (inches): 30

Stack Exhaust Flow Rate (scfm): 2,790

Stack Temperature (°F): 300

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 02-A-737-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-03

Associated Equipment

Associated Emission Unit ID Number(s): EU-03A, EU-03B

Emissions Control Equipment ID Number: CE-03

Emissions Control Equipment Description: Pulse Jet Baghouse ⁽¹⁾

⁽¹⁾ EU-03A is the only emission unit that vents through the baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-03A

Emission Unit Description: #3 Gypsum Calcining Kettle

Raw Material/Fuel: Gypsum Ore

Rated Capacity: 18.0 tons/hr

Emission Unit vented through this Emission Point: EU-03B

Emission Unit Description: #3 Kettle Natural Gas Burner

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.012 MMcf/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-738-S1
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.72 lb/hr ⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-738-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.72 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-738-S1

⁽²⁾ Emission limit based on 0.03 gr/dscf

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 02-A-738-S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmvd

Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 3.16 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 02-A-738-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The fuel shall be limited to natural gas only.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

1. Maintain records as to the type of fuel used (i.e. fuel bill).

Authority for Requirement: Iowa DNR Construction Permit 02-A-738-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 97

Stack Diameter (inches): 30

Stack Exhaust Flow Rate (scfm): 2,790

Stack Temperature (°F): 300

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 02-A-738-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) - Demonstrated Compliance on 10/03/02

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be Completed by (date) - Demonstrated Compliance on 10/03/02

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant - Sulfur Dioxide (SO₂) ⁽²⁾

Stack Test to be Completed by (date) – Demonstrated Compliance on 10/03/02

Test Method - Method 6C, 40 CFR 60 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

⁽²⁾ EP-03 demonstrated compliance with the emission limit on 10/03/02. The Department will waive the SO₂ testing for EP-02, EP-06, and EP-30.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-04**Associated Equipment**

Associated Emission Unit ID Number(s): EU-04A, EU-04B

Applicable Requirements

Emission Unit vented through this Emission Point: EU-04A
Emission Unit Description: #4 Kettle Natural Gas Burner
Raw Material/Fuel: Natural Gas
Rated Capacity: 30 MMBtu/hr

Emission Unit vented through this Emission Point: EU-04B
Emission Unit Description: #4 Kettle #2 Fuel Oil Burner
Raw Material/Fuel: No. 2 Fuel Oil
Rated Capacity: 22.058 gal/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.6 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 2.5 lb/MMBtu (limit when burning No. 2 fuel oil)
Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2
567 IAC 23.3(3)"b"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv (limit when burning natural gas)
Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 3.16 lb/hr⁽²⁾
Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2

⁽²⁾ Emission limit used to minimize PTE

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The fuel shall be limited to natural gas or #2 fuel oil only.
2. The sulfur content of the No. 2 fuel oil shall not exceed 0.0705 percent by weight.

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

1. A record of the sulfur content of the fuel oil (i.e. vendor documentation).

Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 105

Stack Diameter (inches): 28

Stack Exhaust Flow Rate (scfm): 6,850

Stack Temperature (°F): 600

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 88-A-192-S2

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-05**Associated Equipment**

Associated Emission Unit ID Number(s): EU-05

Emissions Control Equipment ID Number: CE-05

Emissions Control Equipment Description: Pulse Jet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-05

Emission Unit Description: #3 Roller Grinding Mill

Raw Material/Fuel: Gypsum Ore

Rated Capacity: 45 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 7 %

Authority for Requirement: Iowa DNR Construction Permit 88-A-193-S1
567 IAC 23.1(2)"bbb"
40 CFR 60.672(a)(2) [Subpart OOO]

Pollutant: PM₁₀

Emission Limit(s): 0.95 lb/hr⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-193-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.95 lb/hr⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-193-S1

⁽¹⁾ Emission limit based on 0.022 gr/dscf

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.022 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 88-A-193-S1
567 IAC 23.1(2)"bbb"
40 CFR 60.672(a)(1) [Subpart OOO]

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

This unit is subject to 40 CFR 60 Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants (567 IAC 23.1 (2)"bbb"). The facility shall comply with all applicable requirements as stated in Section II Plantwide Conditions (see Operational Limits and Requirements – NSPS Subpart OOO).

Authority for Requirement: 567 IAC 23.1 (2)"bbb"
40 CFR 60 Subpart OOO Standards of Performance for
Nonmetallic Mineral Processing Plants

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 105

Stack Diameter (inches): 16

Stack Exhaust Flow Rate (scfm): 5,048

Stack Temperature (°F): 170

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 88-A-193-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>7 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If

all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) – April 29, 2005

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be completed by (date) - April 29, 2005

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-06**Associated Equipment**

Associated Emission Unit ID Number(s): EU-06

Emissions Control Equipment ID Number: CE-06

Emissions Control Equipment Description: Pulse Jet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-06

Emission Unit Description: #4 Gypsum Calcining Kettle

Raw Material/Fuel: Gypsum Ore

Rated Capacity: 43 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 10 %

Authority for Requirement: Iowa DNR Construction Permit 88-A-194-S1
567 IAC 23.1(2)"ppp"
40 CFR 60.732(b) [Subpart UUU]

Pollutant: PM₁₀

Emission Limit(s): 5.16 lb/hr⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-194-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 5.16 lb/hr⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-194-S1

⁽¹⁾ Emission limit based on 0.04 gr/dscf

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.04 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 88-A-194-S1
567 IAC 23.1(2)"ppp"
40 CFR 60.732(a) [Subpart UUU]

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: Iowa DNR Construction Permit 88-A-194-S1
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 3.16 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 88-A-194-S1
567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

This unit is subject to 40 CFR 60 Subpart UUU Standards of Performance for Calciners and Dryers in Mineral Industries (567 IAC 23.1 (2)"ppp"). The facility shall comply with all applicable requirements as stated in Section II Plantwide Conditions (see Operational Limits and Requirements – NSPS Subpart UUU).

Process throughput:

1. The fuel shall be limited to natural gas only.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

1. Maintain records as to the type of fuel used (i.e. fuel bill).

Authority for Requirement: Iowa DNR Construction Permit 88-A-194-S1
567 IAC 23.1 (2)"ppp"

40 CFR 60 Subpart UUU Standards of Performance for Calciners and Dryers in Mineral Industries

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 105

Stack Diameter (inches): 30

Stack Exhaust Flow Rate (scfm): 15,060

Stack Temperature (°F): 300

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 88-A-194-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>10 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) - April 29, 2005

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be completed by (date) - April 29, 2005

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-07**Associated Equipment**

Associated Emission Unit ID Number(s): EU-07A, EU-07B

Emissions Control Equipment ID Number: CE-07

Emissions Control Equipment Description: Pulse Jet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-07A

Emission Unit Description: #1 Roller Grinding Mill

Raw Material/Fuel: Gypsum Ore

Rated Capacity: 22.0 tons/hr

Emission Unit vented through this Emission Point: EU-07B

Emission Unit Description: #2 Roller Grinding Mill

Raw Material/Fuel: Gypsum Ore

Rated Capacity: 22.0 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-739
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.02 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-739

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.02 lb/hr⁽²⁾
Authority for Requirement: Iowa DNR Construction Permit 02-A-739

⁽²⁾ Emission limit based on 0.03 gr/dscf

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 02-A-739
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 91
Stack Diameter (inches): 17.5
Stack Exhaust Flow Rate (scfm): 4,000
Stack Temperature (°F): 170
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 02-A-739

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter
Stack Test to be Completed by (date) - April 29, 2005
Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾
Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀
Stack Test to be completed by (date) - April 29, 2005
Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾
Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-08**Associated Equipment**

Associated Emission Unit ID Number(s): EU-08

Emissions Control Equipment ID Number: CE-08

Emissions Control Equipment Description: Baghouse (Shaker Type)

Applicable Requirements

Emission Unit vented through this Emission Point: EU-08

Emission Unit Description: Cooling Belt Conveyor

Raw Material/Fuel: Stucco

Rated Capacity: 70 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-740
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.54 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-740

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.54 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-740

⁽²⁾ Emission limit based on 0.03 gr/dscf

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 02-A-740
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 81
Stack Diameter (inches): 20
Stack Exhaust Flow Rate (scfm): 6,000
Stack Temperature (°F): 170
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 02-A-740

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter
Stack Test to be Completed by (date) - April 29, 2005
Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾
Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀
Stack Test to be completed by (date) - April 29, 2005
Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾
Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-09**Associated Equipment**

Associated Emission Unit ID Number(s): EU-09A, EU-09B
Emissions Control Equipment ID Number: CE-09
Emissions Control Equipment Description: Pulsejet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-09A
Emission Unit Description: Gypsum Ore Rotary Rock Dryer
Raw Material/Fuel: Gypsum Ore
Rated Capacity: 100 tons/hr

Emission Unit vented through this Emission Point: EU-09B
Emission Unit Description: Rock Dryer Burner
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.0301 MMcf/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 10 %
Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2
567 IAC 23.1(2)"ppp"
40 CFR 60.732(b) [Subpart UUU]

Pollutant: PM₁₀
Emission Limit(s): 4.8 lb/hr⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 4.8 lb/hr⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2

⁽²⁾ Emission limit based on 0.025 gr/dscf

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.025 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2
567 IAC 23.1(2)"ppp"
40 CFR 60.732(a) [Subpart UUU]

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 0.11 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 22.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 6.33 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

This unit is subject to 40 CFR 60 Subpart UUU Standards of Performance for Calciners and Dryers in Mineral Industries (567 IAC 23.1 (2)"ppp"). The facility shall comply with all applicable requirements as stated in Section II Plantwide Conditions (see Operational Limits and Requirements – NSPS Subpart UUU).

Process throughput:

1. The fuel shall be limited to natural gas only.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

1. Maintain records as to the type of fuel used (i.e. fuel bill).

Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2

567 IAC 23.1 (2)"ppp"

40 CFR 60 Subpart UUU Standards of Performance for Calciners and Dryers in Mineral Industries

Compliance Plan

The owner/operator of this equipment shall comply with the applicable requirements listed below.

With the exception(s) listed below, this point is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, this source will comply with such requirements in a timely manner.

Exception(s):

There is a calculated violation of the SO₂ emission limit required in IDNR Construction Permit 87-A-146-S2 (0.11 lb/hr).

Condition(s):

The permittee shall conduct the SO₂ stack test required below by the required date. If test results indicate the SO₂ emission limit is being exceeded, the permittee shall apply for a construction permit modification within 30 days of the test being approved by the IDNR.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 114

Stack Diameter (inches): 41

Stack Exhaust Flow Rate (scfm): 22,408

Stack Temperature (°F): 189

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 87-A-146-S2

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) - April 29, 2005

Test Method - Iowa Compliance Sampling Manual ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be completed by (date) - April 29, 2005

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant - Sulfur Dioxide (SO₂)

Stack Test to be Completed by (date) - October 29, 2003

Test Method - 40 CFR 60, Appendix A, Method 6C ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant - Nitrogen Oxides (NO_x)

Stack Test to be Completed by (date) - April 29, 2005

Test Method - 40 CFR 60, Appendix A, Method 7E ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Gypsum Ore

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): 189

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>10 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week

have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
 - Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-10 (Vents Internally)**Associated Equipment**

Associated Emission Unit ID Number(s): EU-10

Emissions Control Equipment ID Number: CE-10

Emissions Control Equipment Description: Four (4) Pulsejet Baghouses

Applicable Requirements

Emission Unit vented through this Emission Point: EU-10

Emission Unit Description: Stucco Storage Bins (4)

Raw Material/Fuel: Stucco

Rated Capacity: 70 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-741
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.23 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-741

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.23 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-741

⁽²⁾ Emission limit based on 0.03 gr/dscf

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 02-A-741
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): NA (not vented to the atmosphere)
Stack Diameter (inches): 20
Stack Exhaust Flow Rate (scfm): (4) conveyors at 900 scfm each
Stack Temperature (°F): Ambient
Vertical, Unobstructed Discharge Required: NA
Authority for Requirement: Iowa DNR Construction Permit 02-A-741

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Baghouse Agency Operation & Maintenance Plan

Baghouse Parameters

Baghouse type: ☒ Pulse Jet ☐ Reverse Air ☐ Shaker

Material handled: Stucco

Moisture problems possible: ☐ Yes ☒ No

Material corrosive: ☐ Yes ☒ No

If yes, are acid resistant bags in use: ☐ Yes ☐ No

Operating temperature (°F): 160

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
 - Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-11**Associated Equipment**

Associated Emission Unit ID Number(s): EU-11A, EU-11B

Applicable Requirements

Emission Unit vented through this Emission Point: EU-11A

Emission Unit Description: #1 Board Drying Kiln

Raw Material/Fuel: Natural Gas

Rated Capacity: 110 MMBtu/hr

Emission Unit vented through this Emission Point: EU-11B

Emission Unit Description: #1 Board Drying Kiln

Raw Material/Fuel: No. 2 Fuel Oil

Rated Capacity: 53.676 gal/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 20 %

Authority for Requirement: Iowa DNR Construction Permit 81-A-072-S2
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

Emission Limit(s): 3.36 lb/hr; 14.7 TPY

Authority for Requirement: Iowa DNR Construction Permit 81-A-072-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 81-A-072-S2
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 2.5 lb/MMBtu (limit when burning No. 2 fuel oil)

Authority for Requirement: Iowa DNR Construction Permit 81-A-072-S2
567 IAC 23.3(3)"b"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv (limit when burning natural gas)

Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 18.0 lb/hr; 79.0 TPY

Authority for Requirement: Iowa DNR Construction Permit 81-A-072-S2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The maximum amount of fuel oil No. 2 used in board drying kiln #1 shall not exceed 688,285 gallons per rolling 12-month total.
2. The sulfur content of any fuel oil No. 2 used in board drying kiln #1 shall not exceed 0.0705% by weight.
3. Board drying kiln #1 shall be fired by natural gas or fuel oil No. 2 only.

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

1. The amount of fuel oil No. 2 used in this board drying kiln #1, in gallons. Calculate and record monthly and rolling 12-month totals.
2. The sulfur content of any fuel oil No. 2 used in board drying kiln #1, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 81-A-072-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 44.7

Stack Diameter (inches): 63 x 47

Stack Exhaust Flow Rate (acfm): 104,000

Stack Temperature (°F): 240

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 81-A-072-S2

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Stack Testing:

Pollutant - NO_x

Stack Test to be completed by (date) - April 29, 2005

Test Method - Method 7E, 40 CFR 60 ⁽¹⁾

Authority for Requirement - 567 IAC 23.3(3)"e"

⁽¹⁾ Or approved alternative.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-12**Associated Equipment**

Associated Emission Unit ID Number(s): EU-12

Emissions Control Equipment ID Number: CE-12

Emissions Control Equipment Description: Pulsejet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-12

Emission Unit Description: #1 End Saw

Raw Material/Fuel: Edge Trim

Rated Capacity: 0.23 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-742
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.28 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-742

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.28 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-742

⁽²⁾ Emission limit based on 0.03 gr/dscf

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 02-A-742
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 37
Stack Diameter (inches): 14.5
Stack Exhaust Flow Rate (scfm): 5,000
Stack Temperature (°F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 02-A-742

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter
Stack Test to be Completed by (date) - April 29, 2005
Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾
Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀
Stack Test to be completed by (date) - April 29, 2005
Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾
Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-13**Associated Equipment**

Associated Emission Unit ID Number(s): EU-13

Emissions Control Equipment ID Number: CE-13

Emissions Control Equipment Description: Pulsejet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-13

Emission Unit Description: #2 End Saw

Raw Material/Fuel: Edge Trim

Rated Capacity: 0.2595 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 87-A-147-S1
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.28 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 87-A-147-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.28 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 87-A-147-S1

⁽²⁾ Emission limit based on 0.03 gr/dscf

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 87-A-147-S1
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 37

Stack Diameter (inches): 14.5

Stack Exhaust Flow Rate (scfm): 5,000

Stack Temperature (°F): Ambient

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 87-A-147-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) - April 29, 2005

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be completed by (date) - April 29, 2005

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-14**Associated Equipment**

Associated Emission Unit ID Number(s): EU-14A, EU-14B

Applicable Requirements

Emission Unit vented through this Emission Point: EU-14A

Emission Unit Description: #2 Board Drying Kiln

Raw Material/Fuel: Natural Gas

Rated Capacity: 100 MMBtu/hr

Emission Unit vented through this Emission Point: EU-14B

Emission Unit Description: #2 Board Drying Kiln

Raw Material/Fuel: No. 2 Fuel Oil

Rated Capacity: 95 gal/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 0 %

Authority for Requirement: Iowa DNR Construction Permit 88-A-190-S4
567 IAC 23.3(2)"d"

Pollutant: PM₁₀

Emission Limit(s): 0.0041 gr/scf; 1.78 lb/hr; 8.85 TPY

Authority for Requirement: Iowa DNR Construction Permit 88-A-190-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 40 ppmv; 7.41 lb/hr; 3.50 TPY

Authority for Requirement: Iowa DNR Construction Permit 88-A-190-S4

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 20.0 lb/hr; 87.6 TPY

Authority for Requirement: Iowa DNR Construction Permit 88-A-190-S4

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. This source is limited to no more than 10 percent (10%) or 10 MMBtu/hr No. 2 fuel oil on a yearly basis. This source is therefore limited to no more than 639,043 gallons of No. 2 fuel oil at a rating of 137,080 Btu/gallon on a yearly basis.
2. The sulfur content of the fuel oil is limited to no more than 0.0705%.

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

1. The usage of No. 2 fuel oil shall be summarized monthly and rolled on a 12-month average.
2. The owner shall maintain a record of periods of startup, shutdown, or malfunction.

Authority for Requirement: Iowa DNR Construction Permit 88-A-190-S4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 45

Stack Diameter (inches): 63 x 47

Stack Exhaust Flow Rate (scfm): 50,330

Stack Temperature (°F): 225

Vertical, Unobstructed Discharge Required: Yes ☐ No ☒

Authority for Requirement: Iowa DNR Construction Permit 88-A-190-S4

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective

action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>0 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Stack Testing:

Pollutant – PM₁₀

Stack Test to be completed by (date) - April 29, 2005

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant - Nitrogen Oxides (NO_x)

Stack Test to be Completed by (date) - April 29, 2005

Test Method - 40 CFR 60, Appendix A, Method 7E ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-15

Associated Equipment

Associated Emission Unit ID Number(s): EU-15

Applicable Requirements

Emission Unit vented through this Emission Point: EU-15

Emission Unit Description: #1 Mixer Vent

Raw Material/Fuel: Stucco Mix

Rated Capacity: 70 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-16A & EP-16B (Vent Internally)

Associated Equipment

Associated Emission Unit ID Number(s): EU-16
Emissions Control Equipment ID Number: CE-16A, CE-16B
Emissions Control Equipment Description: CE-16A: Baghouse (exit)
CE-16B: Baghouse (incoming)

Applicable Requirements

Emission Unit vented through this Emission Point: EU-16
Emission Unit Description: C-Belt Conveyor
Raw Material/Fuel: Stucco
Rated Capacity: 36 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's

implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-17**Associated Equipment**

Associated Emission Unit ID Number(s): EU-17

Emissions Control Equipment ID Number: CE-17

Emissions Control Equipment Description: Pulsejet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-17

Emission Unit Description: #2 Stucco Bin

Raw Material/Fuel: Stucco

Rated Capacity: 45 tons/hr

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-196-S1
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.41 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-196-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.41 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-196-S1

⁽²⁾ Emission limit based on 0.03 gr/dscf

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 88-A-196-S1
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 77.67

Stack Diameter (inches): 14

Stack Exhaust Flow Rate (scfm): 5,500

Stack Temperature (°F): 160

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 88-A-196-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) - April 29, 2005

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be completed by (date) - April 29, 2005

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-18**Associated Equipment**

Associated Emission Unit ID Numbers: EU-18A EU-18B

Emissions Control Equipment ID Number: CE-18

Emissions Control Equipment Description: Pulsejet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-18A

Emission Unit Description: #2 Stucco System

Raw Material/Fuel: Stucco

Rated Capacity: 42 tons/hr

Emission Unit vented through this Emission Point: EU-18B

Emission Unit Description: #2 Stucco Mixer

Raw Material/Fuel: Stucco

Rated Capacity: 0.456 tons/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-195-S2
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 1.03 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 88-A-195-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.03 lb/hr⁽²⁾
Authority for Requirement: Iowa DNR Construction Permit 88-A-195-S2

⁽²⁾ Emission limit based on 0.02 gr/dscf

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 88-A-195-S2
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 42.67
Stack Diameter (inches): 17.5
Stack Exhaust Flow Rate (scfm): 6,000
Stack Temperature (°F): 160
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 88-A-195-S2

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant - Particulate Matter
Stack Test to be Completed by (date) - April 29, 2005
Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾
Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀
Stack Test to be completed by (date) - April 29, 2005
Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾
Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-19**Associated Equipment:**

Emission Unit ID Number⁽¹⁾	Control Equipment ID Number	Control Equipment Description
EU-19B	CE-19B	Pulsejet Baghouse
EU-19C	CE-19C	Pulsejet Baghouse
EU-19D	CE-19D	Pulsejet Baghouse
EU-19F	CE-19F	Pulsejet Baghouse
EU-19G	CE-19G1	Pulsejet Baghouse

⁽¹⁾ All emission units vent inside the board warehouse. The board warehouse does contain two (2) roof vents that are used primarily for ventilation.

Applicable Requirements

Emission Unit vented through this Emission Point: EU-19B

Emission Unit Description: #2 Landplaster Received

Raw Material/Fuel: Landplaster

Rated Capacity: 0.7123 tons/hr

Emission Unit vented through this Emission Point: EU-19C

Emission Unit Description: #1 Ball Mill

Raw Material/Fuel: HRA

Rated Capacity: 0.4385 tons/hr

Emission Unit vented through this Emission Point: EU-19D

Emission Unit Description: #2 Ball Mill

Raw Material/Fuel: HRA

Rated Capacity: 0.6216 tons/hr

Emission Unit vented through this Emission Point: EU-19F

Emission Unit Description: #1 Stucco Bin

Raw Material/Fuel: Stucco

Rated Capacity: 38 tons/hr

Emission Unit vented through this Emission Point: EU-19G

Emission Unit Description: Stucco Loading System

Raw Material/Fuel: Stucco

Rated Capacity: 9.13242 tons/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-20

Associated Equipment

Associated Emission Unit ID Number: EU-20

Applicable Requirements

Emission Unit vented through this Emission Point: EU-20

Emission Unit Description: Gypsum Rock Storage Pile

Raw Material/Fuel: Gypsum Ore

Rated Capacity: 1,248,000 tons/yr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-21

Associated Equipment

Associated Emission Unit ID Number: EU-21

Applicable Requirements

Emission Unit vented through this Emission Point: EU-21

Emission Unit Description: Gypsum Rock Stock Pile

Raw Material/Fuel: Gypsum Rock

Rated Capacity: 5,500 tons/yr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-22

Associated Equipment

Associated Emission Unit ID Number: EU-22

Applicable Requirements

Emission Unit vented through this Emission Point: EU-22

Emission Unit Description: Cement Rock Storage Pile

Raw Material/Fuel: Cement Rock

Rated Capacity: 300,000 tons/yr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-23

Associated Equipment

Associated Emission Unit ID Number: EU-23

Applicable Requirements

Emission Unit vented through this Emission Point: EU-23

Emission Unit Description: Synthetic Gypsum Storage Pile

Raw Material/Fuel: Synthetic Gypsum

Rated Capacity: 60,000 tons/yr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-28**Associated Equipment**

Associated Emission Unit ID Number: EU-28
Emissions Control Equipment ID Number: CE-28
Emissions Control Equipment Description: Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-28
Emission Unit Description: Rock Crusher
Raw Material/Fuel: Gypsum Ore
Rated Capacity: 160 tons/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 7 %

Authority for Requirement: Iowa DNR Construction Permit 96-A-363-S1
567 IAC 23.1(2)"bbb"
40 CFR 60.672(a)(2) [Subpart OOO]

Pollutant: PM₁₀

Emission Limit(s): 2.83 lb/hr⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 96-A-363-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.83 lb/hr⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 96-A-363-S1

⁽¹⁾ Based on 0.022 gr/dscf

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 g/dscm (0.022 gr/dscf)

Authority for Requirement: Iowa DNR Construction Permit 96-A-363-S1
567 IAC 23.1(2)"bbb"
40 CFR 60.672(a)(1) [Subpart OOO]

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

This unit is subject to 40 CFR 60 Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants (567 IAC 23.1 (2)"bbb"). The facility shall comply with all applicable requirements as stated in Section II Plantwide Conditions (see Operational Limits and Requirements – NSPS Subpart OOO).

Authority for Requirement: Iowa DNR Construction Permit 96-A-363-S1
567 IAC 23.1 (2)"bbb"
40 CFR 60 Subpart OOO Standards of Performance for
Nonmetallic Mineral Processing Plants

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 82.3

Stack Diameter (inches): 24

Stack Exhaust Flow Rate (scfm): 15,000

Stack Temperature (°F): Ambient

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-363-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>7 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible

emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) - April 29, 2005

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be completed by (date) - April 29, 2005

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-29**Associated Equipment**

Associated Emission Unit ID Number: EU-29

Emissions Control Equipment ID Number: CE-29

Emissions Control Equipment Description: Pulsejet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-29

Emission Unit Description: #4 Kettle Hot Pit

Raw Material/Fuel: Stucco

Rated Capacity: 43 tons/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 10 %

Authority for Requirement: Iowa DNR Construction Permit 96-A-892-S1
567 IAC 23.1(2)"ppp"
40 CFR 60.732(b) [Subpart UUU]

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.057 g/dscm (0.025 gr/dscf)

Authority for Requirement: Iowa DNR Construction Permit 96-A-892-S1
567 IAC 23.1(2)"ppp"
40 CFR 60.732(a) [Subpart UUU]

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

This unit is subject to 40 CFR 60 Subpart UUU Standards of Performance for Calciners and Dryers in Mineral Industries (567 IAC 23.1 (2)"ppp"). The facility shall comply with all applicable requirements as stated in Section II Plantwide Conditions (see Operational Limits and Requirements – NSPS Subpart UUU).

Operating Limits:

The owner or operator of the facility is required to make the following modifications for DNR permit 96-A-892-S1 to be valid:

1. Sampling ports shall be installed which are adequate for the test methods specified in Permit Condition 13. Ideally the sampling ports should be installed at least 8 stack diameters above the last flow disturbance (e.g. fan, pipe elbow) and at least 2 stack diameters below the stack's discharge point. Sample ports located between 4 and 8 stack diameters above the last flow disturbance and between 1 and 2 stack diameters below the stack's discharge point are acceptable. Questions which concern sampling ports should be directed to Mark Stone, IDNR Stack Testing Coordinator.

Reporting & Recordkeeping:

The owner or operator of the facility shall maintain on-site concise, written records for five (5) years which include:

1. Monthly amount of stucco charged to #4 Hot Pit.
2. Daily measurement of the pressure drop across the Pulse Jet Baghouse.
3. Maintenance and repairs performed on Baghouse and system fans.
4. Date of bag changes, fabric type of bag and bag manufacturer's collection efficiency guarantee.
5. Operation and Maintenance Plan for the #4 Hot Pit Baghouse which includes the information specified in the Control Equipment Parameters listed below:

Control Equipment Parameters:

Operation of the #4 Hot Pit and Baghouse shall conform to the following:

1. The owner or operator of the facility is required to operate the Pulse Jet Baghouse within the operating limits specified by its manufacturer. Specific startup and shutdown procedures supplied by the Baghouse manufacturer are to be strictly followed.
2. The owner or operator of the facility is required to install the Nomex bags in the Baghouse that were specified in the permit application and which have a minimum collection efficiency of 99.95 %.
3. The owner or operator of the facility is required to maintain an operational manometer on the Pulse Jet Baghouse.
4. The owner or operator of the facility is required to prepare and implement an Operation and Maintenance Plan for the #4 Hot Pit Baghouse which covers manometer maintenance, bag changes, frequency of bag cleaning, startup and shutdown procedures.

Authority for Requirement: Iowa DNR Construction Permit 96-A-892-S1
567 IAC 22.108(3)"b"
567 IAC 23.1 (2)"ppp"
40 CFR 60 Subpart OOO Standards of Performance for Calciners and Dryers in Mineral Industries

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 43

Stack Diameter (inches): 16

Stack Exhaust Flow Rate (acfm): 5,000

Stack Temperature (°F): 300

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 96-A-892-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>10 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) - April 29, 2005

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-30

Associated Equipment

Associated Emission Unit ID Number: EU-30

Emissions Control Equipment ID Number: CE-30A (#1 Kettle), CE-30B (MBR Hot Pit)

Emissions Control Equipment Description: Reverse Pulse Type Dust Collector (CE-30A)
Cartridge Type Dust Collector (CE-30B)

Applicable Requirements

Emission Unit vented through this Emission Point: EU-30

Emission Unit Description: #1 Calcining Kettle (MBR Kettle) / MBR Kettle Hot Pit

Raw Material/Fuel: Gypsum Ore

Rated Capacity: 30 tons/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 10 %

Authority for Requirement: Iowa DNR Construction 97-A-1026-S1
567 IAC 23.1(2)"ppp"
40 CFR 60.732(b) [Subpart UUU]

Pollutant: PM₁₀

Emission Limit(s): 2.19 lb/hr⁽¹⁾

Authority for Requirement: Iowa DNR Construction 97-A-1026-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.19 lb/hr⁽¹⁾

Authority for Requirement: Iowa DNR Construction 97-A-1026-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.092 g/dscm (0.040 gr/dscf)

Authority for Requirement: Iowa DNR Construction 97-A-1026-S1
567 IAC 23.1(2)"ppp"
40 CFR 60.732(a) [Subpart UUU]

⁽¹⁾ Emission limit based on 0.040 gr/dscf

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

This unit is subject to 40 CFR 60 Subpart UUU Standards of Performance for Calciners and Dryers in Mineral Industries (567 IAC 23.1 (2)"ppp"). The facility shall comply with all applicable requirements as stated in Section II Plantwide Conditions (see Operational Limits and Requirements – NSPS Subpart UUU).

Process Throughput:

1. The fuel shall be limited to natural gas only

Reporting & Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. The owner/operator shall maintain the following records:

1. Maintain records as to the type of fuel used (i.e. fuel bill).

Authority for Requirement: Iowa DNR Construction Permit 97-A-1026-S1
567 IAC 23.1 (2)"ppp"
40 CFR 60 Subpart UUU Standards of Performance for Calciners
and Dryers in Mineral Industries

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 96.7

Stack Diameter (inches): 30

Stack Exhaust Flow Rate (scfm): 6,385

Stack Temperature (°F): 260

Vertical, Unobstructed Discharge Required: Yes ☐ No ☒

Authority for Requirement: Iowa DNR Construction Permit 97-A-1026-S1

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>10 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Stack Testing:

Pollutant - Particulate Matter

Stack Test to be Completed by (date) - April 29, 2005

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be completed by (date) - April 29, 2005

Test Method - 40 CFR 51, Appendix M, Methods 201A with 202 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ or approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-32

Associated Equipment

Associated Emission Unit ID Number: EU-32

Applicable Requirements

Emission Unit vented through this Emission Point: EU-32

Emission Unit Description: Unprocessed Waste Wallboard Pile

Raw Material/Fuel: Waste Wall Board

Rated Capacity: 60,000 tons/yr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-33

Associated Equipment

Associated Emission Unit ID Number: EU-33

Applicable Requirements

Emission Unit vented through this Emission Point: EU-33

Emission Unit Description: Processed Waste Wallboard Storage Pile

Raw Material/Fuel: Waste Wall Board

Rated Capacity: 60,000 tons/yr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-34

Associated Equipment

Associated Emission Unit ID Numbers : EU-34
Emissions Control Equipment ID Number: CE-34
Emissions Control Equipment Description: Pulse Jet Baghouse

Applicable Requirements

Emission Unit vented through this Emission Point: EU-34
Emission Unit Description: #1 Landplaster Receiver Bin
Raw Material/Fuel: Landplaster
Rated Capacity: 0.456 tons/hour

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%⁽¹⁾
Authority for Requirement: Iowa DNR Construction Permit 01-A-361
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 01-A-361
567 IAC 23.3(2)"a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. Maintain Baghouse according to manufacturer's specifications and maintenance schedule.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record on a monthly basis, all maintenance (if any) on the Baghouse.

Authority for Requirement: Iowa DNR Construction Permit 01-A-361

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 74

Stack Diameter (inches): 6

Stack Exhaust Flow Rate (scfm): 1,160

Stack Temperature (°F): 125

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 01-A-361

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-47**Associated Equipment**

Associated Emission Unit ID Numbers: EU-12, EU-13 and EU-47

Emissions Control Equipment ID Number: CE-47

Emissions Control Equipment Description: Fabric Filter Baghouse (Filtrex)

Applicable Requirements

Emission Unit vented through this Emission Point: (EU-12)*, (EU-13)*, EU-47

Emission Unit Description: Dunnage Machine

Raw Material/Fuel: Gypsum Board

Rated Capacity: 0.17 msf/hour

* The #1 and #2 End Saws are existing emission units whose PM emissions are controlled by existing fabric filter baghouses. They can also vent to the Filtrex Baghouse (CE-47) and to the atmosphere via EP-47.

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-362
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.54 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-362

⁽²⁾ Limited requested by the applicant to limit the potential to emit. The limit is based on a maximum flow rate of 9000 scfm and a grain loading limit of 0.02 gr/dscf.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 34

Stack Diameter (inches): 22

Stack Exhaust Flow Rate (scfm): 9,000

Stack Temperature (°F): 70

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 02-A-362

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter

Stack Test to be Completed by (date) – Demonstrated Compliance on 10/02/02

Test Method - Iowa Compliance Sampling Manual Method 5 ⁽¹⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ Or approved alternative.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: EP-48**Associated Equipment**

Associated Emission Unit ID Numbers : EU-48

Emissions Control Equipment ID Number: CE-48

Emissions Control Equipment Description: Pulse-Jet Bin Vent Filter

Applicable Requirements

Emission Unit vented through this Emission Point: EU-48

Emission Unit Description: Kaolin Clay Storage Bin

Raw Material/Fuel: Kaolin Clay

Rated Capacity: 33,600 ft³/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-780
567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limit(s): 0.48 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-780

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.48 lb/hr⁽²⁾

Authority for Requirement: Iowa DNR Construction Permit 02-A-780

⁽²⁾ Emission limit is based on 0.1 gr/dscf.

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 02-A-780
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): Vented Internally
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 560
Stack Temperature (°F): Ambient
Vertical, Unobstructed Discharge Required: Vented Internally
Authority for Requirement: Iowa DNR Construction Permit 02-A-780

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)"b"

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, four or more copies of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides

for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
 - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
 - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
 - b. Compliance test methods specified in 567 Chapter 25; or
 - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a. Any monitoring or testing methods provided in these rules; or
 - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a

violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

- 1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act.
- e. The changes comply with all applicable requirements.
- f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. Aggregate Insignificant Emissions. The permittee shall not construct, establish or operate any new insignificant activities or modify any existing insignificant activities in such a way that the emissions from these activities no longer meet the criteria of aggregate insignificant emissions. If the aggregate insignificant emissions are expected to be exceeded, the permittee shall submit the appropriate permit modification and receive approval prior to making any change. *567 IAC 22.103(2)*

6. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that is required to do any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification.
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
 - ii. The permittee's suggested draft permit
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when conducting any renovation or demolition activities at the facility. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

Compliance with the conditions of this permit shall be deemed compliance with the applicable requirements included in this permit as of the date of permit issuance.

This permit shield shall not alter or affect the following:

1. The provisions of section 303 of the Act (emergency orders), including the authority of the administrator under that section;
2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act;
4. The ability of the department or the administrator to obtain information from the facility pursuant to section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically

altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1

909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2

P.O. Box 1443
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3

1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4

1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5

401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6

1004 W. Madison
Washington, IA 52353
(319) 653-2135

Polk County Public Health Dept.

Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health Dept.

Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000